PATENT NO. : 7,538,224 B2 Page 1 of 14

APPLICATION NO.: 10/561415
DATED: May 26, 2009
INVENTOR(S): Shinji Nara et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

ON COVER PAGE [*] NOTICE:

Notice, "This patent is subject to a terminal disclaimer." should be deleted.

COLUMN 2:

```
Line 39, "(Cell Stress" should read --(Cell Stress-- and "Vol., 3," should read --Vol. 3,--; and
Line 40, "Vol., 42," should read --Vol. 42,--.
```

COLUMN 6:

```
Line 25, "2,4-bis(benzyloxy)-6-(3-oxopentyl)phenyl;" should read --2,4-bis(benzyloxy)-6-(3-oxopentyl)-phenyl;--;
Line 26, "R<sup>4A</sup> are, each" should read --R<sup>4A</sup> are each--; and Line 33, "phenyl]" should read --phenyl,--.
```

COLUMN 9:

Line 4, "aromatic," should read --aromatic--.

COLUMN 11:

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Line 8, "piperiditoalkyl," should read --piperidinoalkyl,--; and Line 52, "organic" should read --Organic--.
```

COLUMN 12:

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Line 27, "(1999)]" should read --(1999)].--.
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COLUMN 15:

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Line 5, "agent," should read --agent--;
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Line 6, "benziodoxol" should read --benzodioxol--;

Line 9, ""dichloromethane," should read --dichloromethane, --; and

Line 54, "between -20 C." should read --between -20°C.--.

PATENT NO. : 7,538,224 B2 Page 2 of 14

APPLICATION NO.: 10/561415
DATED: May 26, 2009
INVENTOR(S): Shinji Nara et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 16:

Line 30, "According" should read --according--.

COLUMN 17:

Line 16, "triphenylphosphine" should read --(triphenylphosphine)--.

COLUMN 18:

Line 25, "R^{1d} represents" should read --R represents--; and Line 53, "with to 5" should read --with 1 to 5--.

COLUMN 19:

Line 51, "material;" should read --material,--.

COLUMN 41:

Line 62, "protien." should read --protein.--.

COLUMN 42:

Line 62, "controls" should read --controls-- and "which" should read --wherein--; and
Line 63, "compound thereon." should read --compound.--.

-

COLUMN 43:

Line 41, "treated" should read --treated with--;

Line 54, "Vol., 3," should read --Vol. 3,--; and

Line 55, "Vol., 14," should read --Vol. 14,--.

COLUMN 44:

Line 65, "preferably-0.05" should read --preferably 0.05--.

PATENT NO. : 7,538,224 B2 Page 3 of 14

APPLICATION NO.: 10/561415

DATED: May 26, 2009

INVENTOR(S): Shinji Nara et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 45:

Line 47, "(4.6 g, 98%). ¹H-NMR" should read --(4.6 g, 98%) ¶ ¹H-NMR--.

COLUMN 46:

Line 1, "benzene. ¹H-NMR" should read --benzene. ¶ ¹H-NMR--.

COLUMN 47:

Line 3, "3.15 ('s, 3H)" should read --3.15 (s, 3H)--; and Line 12, "-6 (2-methoxyethyl)" should read -- -6-(2-methoxyethyl)--.

COLUMN 50:

Line 10, "(2-methoxyethyl)" should read --(2-methoxyethyl)- --; Line 25, "(10' mL)," should read --(10 mL),--; and Line 44, "270 MHz)." should read --270 MHz)--.

COLUMN 51:

Line 5, "(ddt, J=1.0.6," should read --(ddt, J-10.6,--; and Line 23, "(30 g, 65%). ¹H-NMR" should read --(30 g, 65%). ¹H-NMR--.

COLUMN 53;

Line 15, "(s, 3H) ESI-MS" should read --(s, 3H) ¶ ESI-MS--.

COLUMN 54:

Line 29, "(0.89 g, 2.4=mol)" should read --(0.89 g, 2.4 mmol)--.

COLUMN 55:

Line 28, "(2'-methoxy-" should read --(2-methoxy- --; and Line 51, " 1 H-NMR" should read -- \P 1 H-NMR--.

PATENT NO. : 7,538,224 B2 Page 4 of 14

APPLICATION NO.: 10/561415
DATED: May 26, 2009
INVENTOR(S): Shinji Nara et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 56:

Line 54, "(8.0 ml) ¹H-NMR" should read --(8.0 ml). ¶ ¹H-NMR--.

COLUMN 57:

Line 28, "97%). ¹H-NMR" should read --97%). ¶ ¹H-NMR--;

Line 35, "2-(3,5-diallyloxy 2-" should read --2-(3,5-diallyloxy-2- --; and

Line 39, "(2.0 mL). ¹H-NMR" should read --(2.0 mL). ¶ ¹H-NMR--.

COLUMN 58:

Line 4, "0.12 mmol). ¹H-NMR" should read --0.12 mmol). ¶ ¹H-NMR--.

COLUMN 60:

Line 23, "anhydrous" should read --over anhydrous-- and "over" should be deleted; and

Line 28, "1HNMR" should read --1H-NMR--.

COLUMN 65:

Line 52, "3H) APCI-MS" should read --3H ¶ APCI-MS--.

COLUMN 67:

Line 14, "(10 mL) ¹H-NMR" should read --(10 mL) ¶ ¹H-NMR--.

COLUMN 69:

Line 2, "(1.0 mL)," should read --(1.0 mL).--;

Line 29, "3.42, (brs, 2H)," should read --3.42 (brs, 2H),--;

Line 30, "3H) APCI-MS" should read --3H) ¶ APCI-MS--;

Line 58, "dimethoxybenzoyl" should read --dimethoxybenzoyl)-- and "acid)"

should read --acid--; and

Line 59, "phenylacetic acid" should be deleted.

PATENT NO. : 7,538,224 B2 Page 5 of 14

APPLICATION NO.: 10/561415

DATED: May 26, 2009

INVENTOR(S): Shinji Nara et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 71:

Line 14, "(1.0 mL). ¹H-NMR" should read --(1.0 mL). ¶ ¹H-NMR--; and Line 56, "46(70" should read --46 (70--.

COLUMN 72:

Line 38, "(1.0 mL). 1H-NMR" should read --(1.0 mL). \P^1 H-NMR--; and Line 67, "3H) ES-MS" should read --3H) \P ES-MS--.

COLUMN 73:

Line 15, "mL)" should read --mL).--; Line 33, "(25 mL)" should read --(25 mL).--; and Line 50, "3H)," should read --3H)--.

COLUMN 75:

Line 53, "4.99 (s, 0.2H)," should read --4.99 (s, 2H),--.

COLUMN 76:

Line 25, "3H) ESI-MS" should read --3H) ¶ ESI-MS--.

COLUMN 77:

Line 11, "3H) ESI-MS" should read --3H) ¶ ESI-MS--; Line 22, "(1.0 mL). ¹H-NMR" should read --(1.0 mL). ¶ ¹H-NMR--; Line 27, "5.07-4.99 (m 2H)" should read --5.07-4.99 (m, 2H)--; and Line 44, "3H) APCI-MS" should read --3H) ¶ APCI-MS--.

COLUMN 79:

Line 63, "-2-[2-[(2,2-" should read -- -2-{2-[(2,2- --; and Line 64, "methoxy]-ethyl}" should read -- methoxy]ethyl}--.

PATENT NO. : 7,538,224 B2 Page 6 of 14

APPLICATION NO.: 10/561415

DATED: May 26, 2009

INVENTOR(S): Shinji Nara et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 80:

```
Line 8, "(1.0 mL). ^{1}H-NMR" should read --(1.0 mL). ^{1}H-NMR--; and Line 51, "(ethyl accetate/hexane 1/9-1/1" should read --(ethyl acetate/hexane = 1/9-1/1--.
```

COLUMN 81:

Line 25, "(Step 4)" Insert line space above.

COLUMN 85:

Line 62, "5.2.4 (s, 2H)," should read --5.24 (s, 2H),--.

COLUMN 87:

```
Line 37, "furyl-ketone" should read --furyl=ketone--;
Line 42, "acetonitrile," should read --acetonitrile--; and
Line 48, "5.30 (dq, J = 0.11," should read --5.30 (dq, J = 11,--.
```

COLUMN 89:

```
Line 46, "Elemental Analysis: (C_{28}H_{25}N_3O_5.0.2H_2O)" should read --Elemental Analysis: (C_{28}H_{25}N_3O_5.0.2H_2O)--; and Line 58, "dihydroxypheylacetic" should read --dihydroxyphenylacetic--.
```

COLUMN 90:

```
Line 20, "acetate. Melting" should read --acetate. \P Melting--; Line 41, "mol)," should read --mmol),--; and Line 52, "Elemental Analysis: (C_{28}H_{27}NO_5.0.2H_2O)" should read --Elemental Analysis: (C_{28}H_{27}NO_5\cdot0.2H_2O)--.
```

COLUMN 91:

Line 37, "(10 mL). ¹H-NMR" should read --(10 mL). ¶ ¹H-NMR--.

PATENT NO. : 7,538,224 B2 Page 7 of 14

APPLICATION NO.: 10/561415
DATED: May 26, 2009
INVENTOR(S): Shinji Nara et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 92:

Line 22, "5 (ppm):" should read $--\delta$ (ppm):--.

COLUMN 93:

Line 53, "5.29° (m, 1H)," should read --5.29 (m, 1H),--.

COLUMN 96:

Line 7, "3.3.7 (m, 2H)," should read --3.37 (m, 2H),--.

COLUMN 98:

Line 20, "(3-hydroxy-74-methoxybenzoyl" should read --(3-hydroxy-4-methoxybenzoyl--.

COLUMN 100:

Line 37, "(2 mL). ¹H-NMR" should read --(2 mL). ¶ ¹H-NMR--. Line 41, "3H) APCI-MS" should read --3H) ¶ APCI-MS--.

COLUMN 101:

Line 11, "13 mL). ¹H-NMR" should read --13 mL). ¶ ¹H-NMR--; and Line 65, "(3-methylsulfanybenzoyl)" should read --(3-methylsulfonylbenzoyl)--.

COLUMN 102:

Line 25, "Hz, 3H) APCL-MS" should read --Hz, 3H) ¶ APCL-MS--.

COLUMN 103:

Line 30, "sulfonyl-benzoyl)" should read --sulfonylbenzoyl)--.

PATENT NO. : 7,538,224 B2 Page 8 of 14

APPLICATION NO.: 10/561415
DATED: May 26, 2009
INVENTOR(S): Shinji Nara et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 104:

Line 7, "1H-NMR" should read --¶ 1H-NMR--.

COLUMN 105:

Line 43, "(5.0 mL). H-NMR" should read --(5.0 mL). ¶ ¹H-NMR--; and Line 67, "0.31° mmol)," should read --0.31 mmol),--.

COLUMN 106:

Line 6, "methoxyethyl)" should read --methoxyethyl)- --. Line 10, "¹H-NMR" should read --¶ ¹H-NMR--; and Line 66, "¹H-NMR" should read --¶ ¹H-NMR--.

COLUMN 107:

Line 26, " δ (ppm): 7.5.4" should read -- δ (ppm): 7.54--; and Line 59, " 1 H-NMR" should read -- 9 1 H-NMR--.

COLUMN 109:

Line 7, "Example 10'," should read --Example 10,--; and Line 37, "(Step 1) 2-[3,5-Diallyloxy" should read --(Step 1) ¶ 2-[3,5-Diallyloxy--.

COLUMN 110:

Line 5, "(3 mL). ¹H-HMR" should read --(3 mL). ¶ ¹H-HMR--; and Line 49, "(310 mg, 0.52 mmol)" should read --(310 mg, 0.52 mmol)--.

COLUMN 111:

Line 42, "Step 1'," should read --Step 1,--; and Line 61, "1H-HMR" should read --¶1H-HMR--.

PATENT NO. : 7,538,224 B2 Page 9 of 14

APPLICATION NO.: 10/561415

DATED: May 26, 2009

INVENTOR(S): Shinji Nara et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 113:

Line 22, "2-ethyl-6'-" should read --2-ethyl-6- --; and Line 62, "51%). Melting" should read --51%). ¶ Melting--.

COLUMN 114:

Line 2, " $(C_{26}H_{34}N_2O_7.0.2H_2O)$ " should read -- $(C_{26}H_{34}N_2O_7.0.2H_2O)$ --; and Line 45, "5.4-4 (m, 1H)," should read --5.44 (m, 1H),--.

COLUMN 115:

Line 44, " $(C_{25}H_{34}N_2O_6.0.1H_2O)$ " should read -- $(C_{25}H_{34}N_2O_6.0.1H_2O)$ --.

COLUMN 116:

Line 56, "-N-(2-(4-morpholinoethyl)acetamide" should read -- -N-(2-morpholinoethyl)acetamide--.

COLUMN 117:

Line 2, " $(C_{28}H_{38}N_2O_8.2.5H_2O)$ " should read -- $(C_{28}H_{38}N_2O_8.2.5H_2O)$ --.

COLUMN 118:

Line 9, "(m, 3H) APCI-MS" should read --(m, 3H) ¶ APCI-MS--; Line 10, "($C_{24}H_{31}NO_7.0.2H_2O$)" should read --($C_{24}H_{31}NO_7.0.2H_2O$)--; Line 23, "118-(0.17 g, 42%)" should read --118 (0.17 g, 42%)--; and Line 63, "7.47-7.41 (m, 2H)" should read --7.47-7.41 (m, 2H),--.

COLUMN 119:

Line 2, " $(C_{25}H_{33}NO_8.0.3H_2O)$ " should read -- $(C_{25}H_{33}NO_8.0.3H_2O)$ --.

PATENT NO. : 7,538,224 B2 Page 10 of 14

APPLICATION NO.: 10/561415

DATED: May 26, 2009

INVENTOR(S): Shinji Nara et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 120:

Line 54, "(t, J = 7.3°Hz, 3H)" should read --(t, J = 7.3 Hz, 3H)--.

COLUMN 121:

Line 5, "H-NMR" should read -- 1H-NMR--.

COLUMN 124:

Line 25, "6.1.1 (m, 1H)," should read --6.11 (m, 1H),--;

Line 38, "Example 126; Step 1," should read -- Example 126, Step 1,--; and

Line 49, " $(C_{27}H_{38}N_2O_7.0.3H_2O)$ " should read -- $(C_{27}H_{38}N_2O_7.0.3H_2O)$ --.

COLUMN 125:

Line 26, "3.64 (s, total (2H)," should read --3.64 (s, total 2H),--;

Line 31, " $(C_{26}H_{36}N_2O_6.0.3H_2O)$ " should read -- $(C_{26}H_{36}N_2O_6.0.3H_2O)$ --; and

Line 56, "6.94, (m, 1H)," should read --6.94 (m, 1H),--.

COLUMN 126:

Line 13, " $(C_{18}H_{18}O_5.0.3H_2O)$ " should read -- $(C_{18}H_{18}O_5.0.3H_2O)$ --;

Line 32, "Example 110, Step 11" should read --Example 110, Step 1,--;

Line 58, "2H) 6.95" should read --2H), 6.95-- and "3.8.6 (s, 3H)," should read --3.86 (s, 3H),--; and

Line 64, " $(C_{27}H_{38}N_2O_6.2.0H_2O)$ " should read -- $(C_{27}H_{38}N_2O_6.2.0H_2O)$ --.

COLUMN 127:

Line 35, "2.0 mL). Melting" should read --2.0 mL). ¶ Melting--.

Line 41, "1.12(m, 1H)," should read --1.12 (m, 1H),--.

Line 44, " $(C_{28}H_{36}N_2O_7.0.1H_2O)$ " should read -- $(C_{28}H_{36}N_2O_7.0.1H_2O)$ --.

Line 67, "-5.28 (m, 1H)," should read --5.28 (m, 1H),--.

PATENT NO. : 7,538,224 B2 Page 11 of 14

APPLICATION NO.: 10/561415

DATED: May 26, 2009

INVENTOR(S): Shinji Nara et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 128:

Line 13, "(2.0 mL). Melting" should read --(2.0 mL). ¶ Melting--; Line 21, "($C_{22}H_{34}N_2O_6.0.4H_2O$)" should read --($C_{22}H_{34}N_2O_6.0.4H_2O$)--; and Line 53, "2.21 (, 1H)," should read --2.21 (m, 1H),--.

COLUMN 131:

Line 4, "resulting," should read --resulting--; Line 10, "5.29 ('s, 2H)," should read --5.29 (s, 2H),--; Line 31, "(15 mL). ¹H-NMR" should read --(15 mL). ¶ ¹H-NMR--; and Line 34, "(m, 6H) APCI-MS" should read --(m, 6H) ¶ APCI-MS--.

COLUMN 133:

Line 1, "phenylacetate" should read --ethylphenylacetate--.

COLUMN 134:

```
Line 28, "(C_{30}H_{42}N_2O_9.0.HCl.0.5H_2O)" should read --(C_{30}H_{42}N_2O_9\cdot0.HCl\cdot0.5H_2O)--; Line 50, "3.36-3.15° (m, 9H)," should read --3.36-3.15 (m, 9H)--; and Line 55, "(C_{26}H_{36}N_2O_6.0.2H_2O)" should read --(C_{26}H_{36}N_2O_6\cdot0.2H_2O)--.
```

COLUMN 135:

```
Line 26, "Compound 11.3" should read --Compound 113--; and Line 39, "(C_{25}H_{34}N_2O_6.HCl.0.9H_2O.0.1CH_3)" should read --(C_{25}H_{34}N_2O_6.HCl.0.9H_2O.0.1CH_3)--.
```

COLUMN 137:

Line 37, "3.66(t, J = 4.9" should read --3.66 (t, J = 4.9--.

PATENT NO. : 7,538,224 B2 Page 12 of 14

APPLICATION NO.: 10/561415

DATED: May 26, 2009

INVENTOR(S): Shinji Nara et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 138:

Line 5, "(175, mg," should read --(175 mg,--; and Line 61, "(2-methoxyethyliacetamide" should read --(2-methoxyethyl) acetamide--.

COLUMN 140:

Line 35, "(0.0-15 mL)," should read --(0.015 mL),--; and Line 38, "(ppm):" should read -- δ (ppm):--.

COLUMN 141:

Line 20, "7.39 (dd, J = 8.7, 1.8 Hz; 1H)," should read --7.39 (dd, J = 8.7, 1.8 Hz, 1H),--; and Line 58, "phenyl-acetate" should read --phenylacetate--.

COLUMN 142:

Line 13, "H-NMR" should read -- 1H-NMR--.

COLUMN 143:

Line 21, " $(C_{26}H_{23}N_{23}O_5S.0.3H_2O)$ " should read -- $(C_{26}H_{23}N_{23}O_5S.0.3H_2O)$ --; Line 33, "dihydroxy-6" should read --dihydroxy-6 ---; and Line 48, " $(C_{21}H_{25}NO_5S.0.2H_2O)$ " should read -- $(C_{21}H_{25}NO_5S.0.2H_2O)$ --.

COLUMN 144:

Line 5, "3H) APCI-MS" should read --3H) ¶ APCI-MS--;

Line 32, "(1,3-benozdioxo" should read --(1,3-benzodioxo--;

Line 33, "Step 1: using" should read -- Step 1, using--;

Line 38, "(CDOD₃, 300, MHz)" should read --(CDOD₃, 300 MHz)--;

Line 41, "H₂, 3H) APCI-MS" should read --H₂, 3H) ¶ APCI-MS--; and

Line 42, "[M-H]" should read --[M-H]---.

PATENT NO. : 7,538,224 B2 Page 13 of 14

APPLICATION NO. : 10/561415 DATED : May 26, 2009 INVENTOR(S) : Shinji Nara et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 145:

Line 52, "(3.0 mL) Boiling" should read --(3.0 mL) ¶ Boiling--.

COLUMN 146:

Line 32, "Boiling" should read -- ¶ Boiling--.

COLUMN 147:

Line 45, "0.20 mol)" should read --0.20 mol).--.

COLUMN 148:

Line 34, "benzenesulfonamide. ¹H-NMR" should read --benzenesulfonamide. ¶ ¹H-NMR--.

COLUMN 149:

Line 15, "(Step 1) tert-Butyl" should read --(Step 1) \P tert-Butyl--; and Line 47, "(CDC₃₁ 27OMHz)" should read --(CDC₃, 270MHz)--.

COLUMN 151:

Line 29, "R^{2A} aryl" should read --R^{2A} is aryl--.

PATENT NO. : 7,538,224 B2 Page 14 of 14

APPLICATION NO.: 10/561415
DATED: May 26, 2009
INVENTOR(S): Shinji Nara et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 152:

Line 18, "(wherein R" should read --(wherein R^{2A}--.

Signed and Sealed this

Twentieth Day of October, 2009

David J. Kappas

David J. Kappos

Director of the United States Patent and Trademark Office